This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for alleviating chronic pain in a subject, the method comprising the steps of:

administering an effective amount of at least one inhibitor of neurotransmitter synthesis to a subject suffering from chronic pain at a ~~site of inflammation~~ **peripheral nervous system inflammation site, wherein the at least one inhibitor of neurotransmitter synthesis is selected from the group consisting of a glutamine synthetase inhibitor, a glutamate dehydrogenase inhibitor, a pyruvate carboxylase inhibitor, a glutamine cycle inhibitor, a glial cell tricarboxylic acid cycle inhibitor, and combinations thereof**; and

wherein the administration of the effective amount of at least one inhibitor of neurotransmitter synthesis results in a reduction in nociceptive responses at the ~~site of inflammation~~ **peripheral nervous system inflammation site** without any resulting acute pain behavior.

2. (Canceled)

3. (Currently Amended) The method of claim 2_L wherein the at least one inhibitor of neurotransmitter synthesis is selected from the group consisting of phenyl acetic acid (PAA), phenylacetyl Coenzyme-A, phenylacetyl Co-A ester, oxamate, methionine-S-sulfoximine (MSO), phosphinothricin (PPT), 4-N-hydroxy-L-2,4-diaminobutyric acid (NH-DABA), Delta-hydroxylysine, bromofuroate, Palmitoyl-Coenzyme-A (Palmitoyl-Co-A), orthovanadate, vanadyl sulphate, vanadyl acetylacetonate, glutarate, 2-oxoglutarate (α-ketoglutarate), estrogen, estrogen analogues, pyridine-2,6-dicarboxylic acid, fluoroacetate, fluorocitrate, and combinations and derivatives thereof.

4. (Currently Amended) The method of claim 1_L wherein the subject is a human.

5. (Currently Amended) The method of claim 1_L wherein the step of administering an effective amount of at least one inhibitor of neurotransmitter synthesis to a subject suffering from chronic pain at a ~~site of inflammation~~ **peripheral nervous system inflammation site** is further defined as locally administering an effective amount of at least one inhibitor of neurotransmitter

synthesis to a subject suffering from chronic pain at a ~~site of inflammation~~ **peripheral nervous system inflammation site**.

6. (Currently Amended) The method of claim 1_L wherein the step of administering an effective amount of at least one inhibitor of neurotransmitter synthesis to a subject suffering from chronic pain at a ~~site of inflammation~~ **peripheral nervous system inflammation site** is further defined as injecting an effective amount of at least one inhibitor of neurotransmitter synthesis to a subject suffering from chronic pain at a ~~site of inflammation~~ **peripheral nervous system inflammation site**.

7. (Currently Amended) The method of claim 1 wherein the step of administering an effective amount of at least one inhibitor of neurotransmitter synthesis to a subject suffering from chronic pain at a ~~site of inflammation~~ **peripheral nervous system inflammation site** is further defined as topically applying an effective amount of at least one inhibitor of neurotransmitter synthesis to a subject suffering from chronic pain at a ~~site of inflammation~~ **peripheral nervous system inflammation site**.

8. (Currently Amended) The method of claim 1 wherein the step of administering an effective amount of at least one inhibitor of neurotransmitter

synthesis to a subject suffering from chronic pain at a ~~site of inflammation~~ **peripheral nervous system inflammation site** is further defined as orally administering an effective amount of at least one inhibitor of neurotransmitter synthesis to a subject suffering from chronic pain at a ~~site of inflammation~~ **peripheral nervous system inflammation site**.

9. (Currently Amended) The method of claim 8, wherein the effective amount of at least one inhibitor of neurotransmitter synthesis is in the form of a prodrug.

10. (Currently Amended) The method of claim 8, wherein the effective amount of at least one inhibitor of neurotransmitter synthesis demonstrates ~~limited to~~ substantially no penetration ~~into~~ **across** the central nervous system **blood brain barrier**.

11. (Currently Amended) The method of claim 1, wherein the administration of the effective amount of at least one inhibitor of neurotransmitter synthesis results in a reduction in nociceptive responses at the ~~site of inflammation~~ **peripheral nervous system inflammation site** for at least two days without any resulting acute pain behavior.

12-18. (Canceled)

19. (Currently Amended) A method for alleviating acute and chronic pain in a subject, the method comprising the steps of:

administering an effective amount of at least one inhibitor of neurotransmitter synthesis to a subject suffering from acute and chronic pain at a ~~site of inflammation~~ **peripheral nervous system inflammation site, wherein the at least one inhibitor of neurotransmitter synthesis is selected from the group consisting of a glutamine synthetase inhibitor, a glutamate dehydrogenase inhibitor, a pyruvate carboxylase inhibitor, a glutamine cycle inhibitor, a glial cell tricarboxylic acid cycle inhibitor, and combinations thereof**;

administering an effective amount of at least one compound having analgesic effects to the subject at the ~~site of inflammation~~ **peripheral nervous system inflammation site**; and

wherein the administration of the effective amount of at least one inhibitor of neurotransmitter synthesis and the administration of the effective amount of at least one compound having analgesic effects results in a ~~substantially immediate reduction~~ **decrease** in ~~at~~ nociceptive responses at the ~~site of inflammation~~ **peripheral**

nervous system inflammation site without any resulting acute pain behavior.

20. (Canceled)

21. (Currently Amended) The method of claim 20, wherein the at least one inhibitor of neurotransmitter synthesis is selected from the group consisting of phenyl acetic acid (PAA), phenylacetyl Coenzyme-A, phenylacetyl Co-A ester, oxamate, methionine-S-sulfoximine (MSO), phosphinothricin (PPT), 4-N-hydroxy-L-2,4-diaminobutyric acid (NH-DABA), Delta-hydroxylysine, bromofuroate, Palmitoyl-Coenzyme-A (Palmitoyl-Co-A), orthovanadate, vanadyl sulphate, vanadyl acetylacetonate, glutarate, 2-oxoglutarate (α-ketoglutarate), estrogen, estrogen analogues, pyridine-2,6-dicarboxylic acid, fluoroacetate, fluorocitrate, and combinations and derivatives thereof.

22. (Original) The method of claim 19 wherein, in the step of administering an effective amount of at least one compound having analgesic effects, the at least one compound having analgesic effects is a glutamate antagonist or an inhibitor of glutamate binding to glutamate receptors on peripheral sensory nerves.

23. (Currently Amended) The method of claim 19 wherein the administration of the effective amount of at least one inhibitor of neurotransmitter synthesis and the administration of the effective amount of at least one compound having analgesic effects results in a ~~substantially immediate reduction in at~~ **decrease in** nociceptive responses at the ~~site of inflammation~~ **peripheral nervous system inflammation site** that last for a period of at least two days without any resulting acute pain behavior.